

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Ronald L. Anderson Examiner #: 61697 Date: 2/21/00
 Art Unit: 3635 Phone Number 303-2482 Serial Number: 10131654
 Mail Box and Bldg/Room Location: Box 57A37 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Contra-Flow Spray Nozzle

Inventors (please provide full names): Ronald L. Anderson Richard L. Anderson

Earliest Priority Filing Date: 10/14/94

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Original patent No. 5,664,376
Divisional patent No. 5,842,222

STAFF USE ONLY

Type of Search	Vendors and cost where applicable
NA Sequence (#)	STN
AA Sequence (#)	Dialog
Structure (#)	Questel/Orbit
Bibliographic	Dr.Link
Litigation	Lexis/Nexis
Fulltext	Sequence Systems
Patent Family	WWW/Internet
Other	Other (specify)

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-----General Legal-----				Publisher --Public Records--				Financial --News--							
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-----Area of Law-----												Medical			
ADVSOR	6	CONLAW	8	ENVIRN	9	HEALTH	11	LABOR	11	PUBCON	12	TAXRIA	13	GENMED	15
ACCTG	8	CORP	9	ESTATE	9	HR	10	LEXPAT	12	PUBHW	13	TELCOM	10	EMBASE	15
ADMIN	8	COPYRT	8	ETHICS	10	IMMIG	11	M&A	12	REALTY	13	TORTS	14	MEDLNE	15
ADMRTY	8	CRIME	9	FAMILY	10	INSURE	11	MILTRY	12	STSEC	13	TRADE	14	-Helps-	
ADR	8	CYBRLW	9	FEDSEC	10	INTLAW	11	PATENT	12	STTAX	13	TRANS	14	EASY	6
BANKNG	8	EDLAW	9	FEDTAX	10	ITRADE	11	PENBEN	12	TAXANA	13	TRDMRK	14	TERMS	6
BKRTCY	8	ENERGY	9			K-LAW	11					UCC		14	

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NAME * PG DESCRIPT NAME PG DESCRIPT

---CASES & ADMINISTRATIVE DECISIONS---

IPOMNI 1 Int Prop Cases & Reg Matl

PTOMNI 1 FEDCTS, PTO, ITC, ALLREG

~~CASES~~ 1 FEDCTS, PTO & ITC

~~FEDCTS~~ 2 Patent cases from Fed. Cts.

CCPA 2 Ct Customs & Patent Appeals

CAFC 2 Patent cases from Fed. Cir.

PTO 2 PATAPP & COMM'R

---SECONDARY SOURCES---

IPLTR 5 Intell Prop Law Nwltrs

IPLR 5 Intell Prop Law Rev Articles

-----PATENTS GROUP FILES-----

ALL 4 UTIL, DESIGN, PLANT, SIR,
REEXAM & REISS

ALLPAT 4 Comb. ALL & INTPAT

-----U.S. PATENTS-----

UTIL 4 Full Text Patents from 1971*

DESIGN 4 Full Text Patents from 1976

PLANT 4 Full Text Patents from 1976

JNLS

News; CurWS

* Selected coverage 1/15/71 to 12/3/74

5,664,376

<=2> GET 1st DRAWING SHEET OF 2

Sep. 9, 1997

Corner post support member

LIT-REEX: NOTICE OF LITIGATION

ABCO, Inc d/b/a Progressive Foam Products, Filed Jun. 12, 1998, D.C. ^{No. D}
Texas, Doc. No. 3:98CV1368-P (DEFENDANT UNAVAILABLE)

Abco is the owner of all right, title & interest in and to United States Patent Letters Patent No. 5,542,222 (the '222 patent). The '222 patent is valid and enforceable. Defendant Starfoam has infringed the '222 patent. Defendant Starfoam is permanently enjoined from further infringement of the '222 patent including making, selling, or offering to sell corner post support members of the type illustrated in Exh. A & B...

REISSUE: Reissue Application filed Sept. 7, 1999, (O.G. Oct. 19, 1999) Ex. Gp.: 3621; Re. S.N. 09/391,294

CORE TERMS: corner, siding, panel, flange, backer, longitudinally, exterior wall, sheet, outwardly, rigidity...

5664376 OR 5,664,376

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To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

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5664376' OR 5,664,376

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September, 1998

SECTION: RFC EXPRESS TM; Recently Filed Patent Cases; Pg. 24

LENGTH: 2466 words

BODY:

... ABCO INC. DBA
PROGRESSIVE FOAM PRODUCTS
vs.
STARRFOAM MFG INC., ET AL
5,542,222-052/287.1; 5,664,376 -052/287.1

98-848 -- Filed: 980618
ANCHOR TIEDOWN SYSTEMS INC.
vs.

5/39/1

DIALOG(R) File 345: Inpadoc/Fam. & Legal Stat
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13750642

Basic Patent (No,Kind,Date): WO 9724498 A1 970710 <No. of Patents: 004>

Patent Family:

Patent No	Kind	Date	Applc No	Kind	Date
AU 9713554	A1	970728	AU 9713554	A	961226
US 5664379	A	970909	US 580167	A	951228
US 5924249	A	990720	US 925872	A	970909
WO 9724498	A1	970710	WO 96US20799	A	961226 (BASIC)

Priority Data (No,Kind,Date):

US 580167	A	951228
WO 96US20799	W	961226
US 925872	A	970909
US 580167	A3	951228

PATENT FAMILY:

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 9713554 A1 970728
 STAIRWAY STEP ASSEMBLY (English)
 Patent Assignee: PROTECTOR CARE INC
 Author (Inventor): KROLL WILLIAM P; PROBST PAUL C; KROLL KARL J F
 Priority (No,Kind,Date): US 580167 A 951228; WO 96US20799 W
 961226
 Applc (No,Kind,Date): AU 9713554 A 961226
 IPC: * E04F-011/02
 Derwent WPI Acc No: * G 97-363724
 Language of Document: English

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5664379 A 970909
 STAIRWAY STEP ASSEMBLY (English)
 Patent Assignee: PROTECTOR CARE INC (US)
 Author (Inventor): KROLL WILLIAM P (US); PROBST PAUL C (US); KROLL
 KARL J F (US)
 Priority (No,Kind,Date): US 580167 A 951228
 Applc (No,Kind,Date): US 580167 A 951228
 National Class: * 052184000; 052183000; D25069000
 IPC: * E04F-011/02
 Derwent WPI Acc No: * G 97-363724
 Language of Document: English
 Patent (No,Kind,Date): US 5924249 A 990720
 STAIRWAY STEP ASSEMBLY (English)
 Patent Assignee: PROTECTOR CAR INC (US)
 Author (Inventor): KROLL WILLIAM P (US); PROBST PAUL C (US); KROLL
 KARL J F (US)
 Priority (No,Kind,Date): US 925872 A 970909; US 580167 A3 951228
 Applc (No,Kind,Date): US 925872 A 970909
 Addnl Info: 5664379 Patented
 National Class: * 052184000; 052183000; 052188000; D25069000
 IPC: * E04F-011/02
 Derwent WPI Acc No: * G 97-363724
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):
 US 5664379 P 951228 US AE APPLICATION DATA (PATENT)
 (APPL. DATA (PATENT))
 US 580167 A 951228
 US 5664379 P 970909 US A PATENT
 US 5924249 P 951228 US AA PRIORITY

US 5924249 P 970909 US 580167 A3 951228
 US AE APPLICATION DATA (PATENT)
 (APPL. DATA (PATENT))
 US 925872 A 970909
 US 5924249 P 990720 US A PATENT
 WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)
 Patent (No,Kind,Date): WO 9724498 A1 970710
 STAIRWAY STEP ASSEMBLY (English)
 Patent Assignee: PROTECTOR CARE INC (US)
 Author (Inventor): KROLL WILLIAM P; PROBST PAUL C; KROLL KARL J F
 Priority (No,Kind,Date): US 580167 A 951228
 Applic (No,Kind,Date): WO 96US20799 A 961226
 Designated States: (National) AL; AM; AT; AU; BA; BB; BG; BR; BY; CA;
 CH; CN; CU; CZ; DE; DK; ES; FI; GB; GE; HU; IL; IS; JP; KE; KG; KP;
 KR; KZ; LC; LK; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT;
 RO; RU; SD; SE; SG; SI; SK; TJ; TR; TT; UA; UG; UZ; VN (Regional)
 KE; LS; MW; SD; SZ; UG; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE;
 IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE;
 SN; TD; TG
 Filing Details: WO 130000 With international search report; Before
 expiration of time limit for amending the claims and to be
 republished in the event of the receipt of the amendments
 IPC: * E04F-011/02
 Derwent WPI Acc No: * G 97-363724; G 97-363724
 Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)
 Legal Status (No,Type,Date,Code,Text):
 WO 9724498 P 951228 WO AA PRIORITY (PATENT)
 US 580167 A 951228
 WO 9724498 P 961226 WO AE APPLICATION DATA (APPL. DATA)
 WO 96US20799 A 961226
 WO 9724498 P 970710 WO AK DESIGNATED STATES CITED IN A
 PUBLISHED APPLICATION WITH SEARCH REPORT
 (DESIGNATED STATES CITED IN A PUBLISHED APPL.
 WITH SEARCH REPORT)
 AL AM AT AU BA BB BG BR BY CA CH CN CU CZ DE
 DK ES FI GB GE HU IL IS JP KE KG KP KR KZ LC
 LK LT LU LV MD MG MK MN MW MX NO NZ PL PT RO
 RU SD SE SG SI SK TJ TR TT UA UG UZ VN
 WO 9724498 P 970710 WO AL DESIGNATED COUNTRIES FOR
 REGIONAL PATENTS CITED IN A PUBLISHED
 APPLICATION WITH SEARCH REPORT (DESIGNATED
 COUNTRIES FOR REGIONAL PATENTS CITED IN A
 PUBLISHED APPL. WITH SEARCH REPORT)
 KE LS MW SD SZ UG AT BE CH DE DK ES FI FR GB
 GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA
 GN ML MR NE SN TD TG
 WO 9724498 P 970710 WO A1 PUBLICATION OF THE INTERNATIONAL
 APPLICATION WITH THE INTERNATIONAL SEARCH
 REPORT (PUB. OF THE INTERNATIONAL APPL. WITH
 THE INTERNATIONAL SEARCH REPORT)
 WO 9724498 P 971001 WO 121 EP: PCT APP. ART. 158 (1) (EP:
 PCT ANM. ART. 158 (1))
 WO 9724498 P 971009 WO DFPE REQUEST FOR PRELIMINARY
 EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH
 MONTH FROM PRIORITY DATE
 WO 9724498 P 980904 WO NENP NON-ENTRY INTO THE NATIONAL
 PHASE IN:
 JP 97524571
 WO 9724498 P 981022 DE 8642/REG WITHDRAWAL (ZURUECKNAHME)
 WO 9724498 P 990421 WO 122 EP: PCT APP. NOT ENT. EUROP.

PHASE (EP: PCT ANM. NICHT IN EUROP. PHASE
EING.)

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1/39/1DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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13091051

Basic Patent (No,Kind,Date): CA 2150045 AA 960615 <No. of Patents: 003>

Patent Family:

Patent No	Kind	Date	Applie No	Kind	Date
CA 2150045	AA	960615	CA 2150045	A	950524 (BASIC)
US 5542222	A	960806	US 355471	A	941214
US 5664376	A	970909	US 639698	A	960429

Priority Data (No,Kind,Date):

US 355471	A	941214
US 639698	A	960429
US 355471	A1	941214

PATENT FAMILY:

CANADA (CA)

Patent (No,Kind,Date): CA 2150045 AA 960615
 CORNER POST SUPPORT MEMBER (English; French)
 Patent Assignee: ABCO INC (US)
 Author (Inventor): WILSON RICHARD C (US); CULPEPPER PATRICK M (US)
 Priority (No,Kind,Date): US 355471 A 941214
 Aplic (No,Kind,Date): CA 2150045 A 950524
 IPC: * E04H-012/22
 Language of Document: English

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5542222 A 960806
 CORNER POST SUPPORT MEMBER Corner post support member (English)
 Patent Assignee: ABCO INC (US)
 Author (Inventor): WILSON RICHARD C (US); CULPEPPER PATRICK M (US)
 Priority (No,Kind,Date): US 355471 A 941214
 Aplic (No,Kind,Date): US 355471 A 941214
 National Class: * 052287100; 052288100; 052276000; 052716100
 IPC: * E04B-001/00
 Derwent WPI Acc No: * G 96-370131; G 96-370131
 Language of Document: English
 Patent (No,Kind,Date): US 5664376 A 970909
 CORNER POST SUPPORT MEMBER (English)
 Patent Assignee: ABCO INC (US)
 Author (Inventor): WILSON RICHARD C (US); CULPEPPER PATRICK M (US)
 Priority (No,Kind,Date): US 639698 A 960429; US 355471 A1 941214
 Aplic (No,Kind,Date): US 639698 A 960429
 Addnl Info: 5542222 Patented
 National Class: * 052287100; 052288100; 052716100
 IPC: * E04B-002/00
 Derwent WPI Acc No: ; C 97-456302
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):
 US 5542222 P 941214 US AE APPLICATION DATA (PATENT)
 (APPL. DATA (PATENT))
 US 355471 A 941214
 US 5542222 P 941214 US AS02 ASSIGNMENT OF ASSIGNEE'S
 INTEREST
 ABCO, INC. (D/B/A PROGRESSIVE FOAM PRODUCTS)
 1269 STONE CREEK ROAD, S.W. NEW PHI ; WILSON,
 RICHARD C. : 19941207; CULPEPPER, PATRICK M.
 : 19941207

US 5542222 P 960806 US A PATENT
US 5664376 P 941214 US AA PRIORITY
US 355471 A1 941214
US 5664376 P 960429 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 639698 A 960429
US 5664376 P 970909 US A PATENT
US 5664376 P 991019 US RF REISSUE APPLICATION FILED
(REISSUE APPL. FILED)
19990907

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LITA 2
CRXX 1
LGST 1
PAST 1

1/5 LITA (1/2) - (C) LITALERT

AN - P1999-16-35

XR - P1998-27-05

FS - PATENT (P)

PN - US5542222 19960806 (Utility)

TI - Corner post support member

PCL - 052287100

IN - Wilson Richard C;

- Culpepper - OH

PA - Abco Incorporated - OH

IT - not available

PF - ABCO Incorporated; dba; Progressive Foam Products care of Phillip
Philbin Haynes & Boone LLP

DF - not available

CT - TX, Northern Dist.

DN - 3:98CV1368-P

FD - 1998-06-12

AD - 1999-04-01

ACT - See attached judgment.

OPN - US5664376

UP - 1999-16

2/5 LITA (2/2) - (C) LITALERT

AN - P1998-27-05

FS - PATENT (P)

PN - US5542222 19960806 (Utility)

TI - Corner post support member

PCL - 052287100

IN - Wilson Richard C;

- Culpepper - OH

PA - Abco Incorporated - OH

IT - not available

PF - ABCO Incorporated; dba; Progressive Foam Products care of Phillip
Philbin Haynes & Boone LLP

DF - not available

CT - TX, Northern Dist.

DN - 3:98CV1368-P

FD - 1998-06-12

ACT - A complaint was filed.

OPN - US5664376

UP - 1998-27

3/5 CRXX (1/1) - (C) CLAIMS/RRX

AN - 2880561

PN - 5,664,376 A 19970909 [US5664376]

PA - Abco Inc

PT - M (Mechanical)

ACT - 19990907 REISSUE REQUESTED

Issue Date of O.G.: 19991019
Reissue Request Number: 09/391294
Examination Group responsible for Reissue process: 3621

UP - 1999-41
UACT- 1999-10-19

4/5 LGST (1/1) - (C) LEGSTAT
PN - US 5664376 [US5664376]
AP - US 639698/96 19960429 [1996US-0639698]
DT - US-P
ACT - 19960429 US/AE-A
APPLICATION DATA (PATENT)
{US 639698/96 19960429 [1996US-0639698]}
- 19970909 US/A
PATENT
- 19991019 US/RF
REISSUE APPLICATION FILED
19990907
UP - 1999-42

5/5 PAST (1/1) - (C) PAST
AN - 199942-001297
PN - 5664376 A [US5664376]
DT - A (UTILITY)
OG - 1999-10-19
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

Search statement 7